

Reg. No. :

--	--	--	--	--	--	--	--	--	--

**Question Paper Code:49810**

B.E./B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Information Technology

14UIT910 BUILDING ENTERPRISE APPLICATION

(Common to CSE)

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10x 1 = 10Marks)

1. Which of the following statements about software is true?
  - (a) Software becomes more and more faulty over time.
  - (b) Software is physical and easy to visualize.
  - (c) Software has low manufacturing cost.
  - (d) Software is hard to modify.
  
2. Which of the following statements about software engineering activities is true?
  - (a) Reverse-engineering refers to the process of improving software.
  - (b) Refactoring refers to the improvement of internal software quality
  - (c) Re-engineering refers to the same activities as reverse engineering.
  - (d) Refactoring is performed before reverse-engineering.

3. Which of the following statements about the V-model is true?
- (a) Verification is concerned with whether we build the right system.
  - (b) Validation is concerned with whether we build the system right.
  - (c) Acceptance is a concern of the customer.
  - (d) Integration is a concern of the analyst.
4. Which of the following associations is realized by this code fragment?

```
class Vessel
  attr_accessor :position
  def initialize(lat, lon)
    @position = Position.new(lat, lon)
  end
end
```

- (a) Aggregation
  - (b) Composition.
  - (c) Generalization.
  - (d) Navigation.
5. Which of the following statements about software quality attributes is true?
- (a) Interoperability measures how well software can be executed on another platform.
  - (b) Integrity measures how well accidental access to software can be controlled.
  - (c) Testability measures how correct and complete software is.
  - (d) Reliability measures how fast a software executes
6. Which of the following activities is not one of the four things that need to be accomplished by the generic planning task set?
- (a) Develop overall project strategy
  - (b) Identify the functionality to deliver in each software increment
  - (c) Create a detailed schedule for the complete software
  - (d) Devise a means of tracking progress on a regular basis

7. Analysis models depict software in which three representations?
- (a) architecture interface component      (b) cost risk schedule  
(c) information function behavior      (d) None of the above
8. Which of the following is not one of the principles of good coding?
- (a) Create unit tests before you begin coding  
(b) Create a visual layout that aids understanding  
(c) Keep variable names short so that code is compact  
(d) Write self-documenting code not program documentation
9. Which of these is not one of the phase names defined by the Unified Process model for software development?
- (a) Inception phase    (b) Elaboration phase    (c) Construction phase    (d) Validation phase
10. ----- is used to plan the execution of tests as decided in the test strategy
- (a) Test execution      (b) Test analysis      (c) Test planning    (d) Test implementation

PART – B (5 x 2= 10Marks)

11. What are test cases?
12. What is the role of business process modeling in implementing enterprise?
13. Define DMZ
14. Differentiate between functional and non functional requirements.
15. Explain the use of integration and performance testing in detail.

PART – C (5 x 16= 80Marks)

16. (a) Explain about of life cycle of raising enterprise applications? (16)

Or

- (b) Discuss three key determinants of successful enterprise applications (16)
17. (a) What is requirement validation? What are its steps? Also write various challenges faced during requirement validation. (16)
- Or
- (b) Explain Non-functional Requirements ? (16)
18. (a) Discuss about various types of Networking, Internet working, and Communication Protocols, IT Hardware and Software Middle-ware. (16)
- Or
- (b) Explain in detail about architecture that enables separate applications to work together, but in a decoupled fashion such that applications can be easily added or removed without affecting the others? (16)
19. (a) Construct the readiness of enterprise applications in various approaches? (16)
- Or
- (b) Construct the technical solutions layers, methodologies of code review, static code analysis, build and testing, dynamic code analysis? (16)
20. (a) Explain in detail environmental testing? (16)
- Or
- (b) Discuss the details about Enterprise application with suitable example? (16)